

Patent Claims

1. Process for electrochemical stripping of components, in particular for stripping aluminum-coated components of a gas turbine, characterized in that an operating point of the electrochemical stripping is determined under actual process conditions prior to the actual stripping and is determined anew continuously, i.e., monitored and optionally adjusted during the electrochemical stripping.
2. Process according to Claim 1, characterized in that the stripping is performed using a 2-electrode system, whereby the operating point of the 2-electrode system is determined under actual process conditions prior to the actual electrochemical stripping and is determined anew continuously, i.e., monitored and optionally adjusted during the electrochemical stripping.
3. Process according to Claim 1 or 2, characterized in that the operating point is determined as a function of a measured polarization current or a measured polarization conductance.
4. Process according to one or more of Claims 1 through 3, characterized in that a direct voltage potential is applied, whereby the direct voltage potential is increased until the polarization conductance or the first derivation of the polarization current as a function of the direct voltage potential is approximately zero, and that this value of the direct voltage potential determines the operating point in stripping.
5. Process according to one or more of Claims 1 through 4, characterized in that a direct voltage potential is applied for stripping, whereby the direct voltage potential is increased until the polarization current reaches a maximum as a function of the direct voltage

potential, and that this maximum determines the operating point of the stripping.

6. Process according to one or more of Claims 1 through 5, characterized in that an alternating voltage is superimposed on the direct voltage potential during the stripping, that a change in the polarization current or the polarization conductance due to the superimposed alternating voltage is measured, and that the direct voltage potential is adjusted as a function thereof, so that the polarization current remains at the maximum.
7. Process according to Claim 6, characterized in that an alternating voltage of a low amplitude, in particular ± 5 mV, is superimposed on the direct voltage potential.
8. Process according to one or more of Claims 1 through 7, characterized in that the values of the polarization current or the polarization conductance measured during the stripping are used to determine a termination criterion for the electrochemical stripping.
9. Process according to one or more of Claims 1 through 8, characterized in that a blade of a gas turbine having channels, in particular cooling channels, integrated into the blade is stripped, whereby the operating point is determined as a function of a measured polarization current or polarization conductance for stripping the blade surface, and whereby the control potential is increased after stripping the blade surface, so that the stripping of the blade surface comes to a standstill and stripping of the channels is performed.